

5 PROCESS FOR THE PREPARATION OF A MOLECULAR SIEVE ADSORBENT
FOR THE ADSORPTIVE DEHYDRATION OF ALCOHOLS

ABSTRACT OF THE DISCLOSURE

10 This invention relates to the use of pore mouth control of microporous solids for
developing novel molecular sieve adsorbents and their potential in the drying of
alcohols. More specifically, the invention relates to the manufacture and use of a
molecular sieve adsorbent, which selectively adsorbs water from azeotropic alcohol -
water mixtures by pore mouth control of microporous solids with liquid phase metal
alkoxide deposition on the external surface at ambient conditions of temperature and
15 pressure. The prepared adsorbent is therefore useful for the commercial drying of
alcohols.